

Amendment by virtue of the PCT Art.34.

Clean Version

[DOCUMENT NAME] SCOPE OF CLAIM FOR PATENT

5 **1** (Amended) A mobile device having wireless antennas in a wireless communication network having a plurality of base stations, characterized in including:

 two or more antennas installed separately at an extent that the base station of which radio wave intensity

10 becomes maximum differs antenna by antenna in a case where the mobile device has stood still in the vicinity of a boundary of wireless areas;

 a communication means for simultaneously utilizing said two or more antennas, thereby to simultaneously make

15 communication with a plurality of the base stations;

 means for detecting a transmission/reception state of each antenna; and

 means for performing a hand-over process based upon difference of said transmission/reception state of each of 20 said antennas.

2 (Cancel)

3 The mobile device according to claim 1, characterized 25 in that said mobile device is a vehicle.

4 The mobile device according to claim 1, characterized in that said mobile device is a train.

5 5 The mobile device according to claim 1, characterized in that said mobile device is a ship.

6 The mobile device according to claim 1, characterized in raising a communication reliability by, in a case where
10 a set of base stations with which communication is possible via the antenna differ antenna by antenna, making communication with respective separate base stations.

7 (Amended) A mobile device having wireless antennas in a
15 wireless communication network having a plurality of base stations, characterized in including:
two or more antennas installed separately at an extent that the base station of which a communication quality becomes most excellent differs antenna by antenna in a
20 case where the mobile device has stood still in the vicinity of a boundary of wireless areas;
a communication means for simultaneously utilizing said two or more antennas, thereby to simultaneously make communication with a plurality of the base stations;
25 means for detecting a transmission/reception state of

each antenna; and

means for performing a hand-over process based upon difference of said transmission/reception state of each of said antennas.

5

8 (Cancel)

9 The mobile device according to claim 7, characterized in that said mobile device is a vehicle.

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10 The mobile device according to claim 7, characterized in that said mobile device is a train.

15 **11** The mobile device according to claim 7, characterized in that said mobile device is a ship.

20 **12** The mobile device according to claim 7, characterized in raising a communication reliability by, in a case where a set of base stations with which communication is possible via the antenna differ antenna by antenna, making communication with respective separate base stations.

25 **13** (Amended) A mobile device having wireless antennas in a wireless communication network having a plurality of base stations, characterized in including:

two or more antennas installed separated at an extent that the base station of which a communication quality becomes most excellent differs antenna by antenna in a case where the mobile device has stood still in the 5 vicinity of a boundary of wireless areas;

two or more transmission/reception means mounted responding to each of said antennas;

a communication means for simultaneously utilizing said two or more antennas and said two or more 10 transmission/reception means, thereby to simultaneously make communication with a plurality of the base stations;

means for detecting a transmission/reception state of each antenna; and

means for performing a hand-over process based upon 15 said transmission/reception state of each of said antennas.

14 (Cancel)

15 The mobile device according to claim 13, characterized 20 in that said mobile device is a vehicle.

16 The mobile device according to claim 13, characterized in that said mobile device is a train.

25 **17** The mobile device according to claim 13, characterized

in that said mobile device is a ship.

18 The mobile device according to claim 13, characterized
in raising a communication reliability by, in a case where
5 a set of base stations with which communication is
possible via the antenna differ antenna by antenna, making
communication with respective separate base stations.

19 (Cancel)

10

20 (Amended) A method of arranging wireless interfaces,
characterized in including the steps of: arranging two or
more antennas separately at an extent that the base
station of which a communication quality becomes most
15 excellent antenna by antenna in a case where a mobile
device has stood still in the vicinity of a boundary of
wireless areas; mounting two or more
transmission/reception means correspondingly to each
antenna; and arranging wireless interfaces so that said
20 two or more antennas and said two or more
transmission/reception means are simultaneously utilized,
thereby to simultaneously make communication with a
plurality of the base stations and performing a hand-over
process based upon difference of said
25 transmission/reception state of each of said antennas.

21 (Amended) A hand-over method of mobile telecommunications, characterized in including the steps of: detecting a difference of transmission/reception state of two or more antennas mounted separately on a mobile body at an extent that a base station of which radio wave intensity becomes maximum differs antenna by antenna in a case where the mobile body has stood still in the vicinity of a boundary of wireless areas; and performing a hand-over process to the base station of the antenna where the radio wave intensity becomes strong with movement.

22 (Amended) A hand-over method of mobile telecommunications, characterized in including the steps of: detecting a difference of transmission/reception state of two or more antennas mounted separately on a mobile body at an extent that a base station of which a communication quality becomes most excellent differs antenna by antenna in a case where the mobile body has stood still in the vicinity of a boundary of wireless areas; and performing a hand-over process to the base station of the antenna where the radio wave intensity becomes strong with movement.